

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Docket No:Q90822
KITAHARA, et al.
Serial No.: 10/556,456 Art Unit: 1794
Filed : November 10, 2005
Examiner: Jacobson, Michele Lynn
Title : LAMINATE

DECLARATION UNDER RULE 132

Honorable Commissioner of Patents and Trademarks,
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I, Shimono Takeshi, a citizen of Japan and having postal mailing address of c/o DAIKIN INDUSTRIES, Ltd., Yodogawa Plant. 1-1, Nishihitotsuya, Settsu-shi, Osaka 566-8585 JAPAN, declare and say that:

In March 1998, I was graduated from Japan Advanced Institute of Science and Technology (JAIST) and received a Bachelor's Degree in Science;

I am familiar with the subject matter of the above-identified application;

I have read the Official Action mailed and the references cited therein and I am familiar with the subject matter thereof;

I respectfully submit herewith my exact report thereon.

The following experiments were conducted by me or

under my direct supervision.

Comparative Example 2

A two-material two-layer multilayer tube was molded in the same manner as in Example 3 except that the fluororesin (F-B) was used for forming the inner layer. The molding conditions are shown below.

The two layers of the multilayer tube obtained were easily separated by hand.

Table

		Comparative Example 2
Inner layer	Materials	Fluororesin F-B
	Cylinder temperature [°C]	270-300
	Adaptor temperature [°C]	280
Outer layer	Materials	PA12
	Cylinder temperature [°C]	210-245
	Adaptor temperature [°C]	245
Extrusion conditions	Die temperature [°C]	280
	Line speed [m/min]	8
	Water temperature [°C]	10
Tube outside diameter [mm]		8.0
Wall thickness [mm]	Inner layer	0.25
	Intermediate layer 1	-
	Intermediate layer 2	-
	Outer layer	0.75
	Total wall thickness	1

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signed this 26th day of March, 2009

A handwritten signature in cursive script, reading "Takeshi Shiono", is written over a horizontal line.

Takeshi Shiono